

Fig. 1

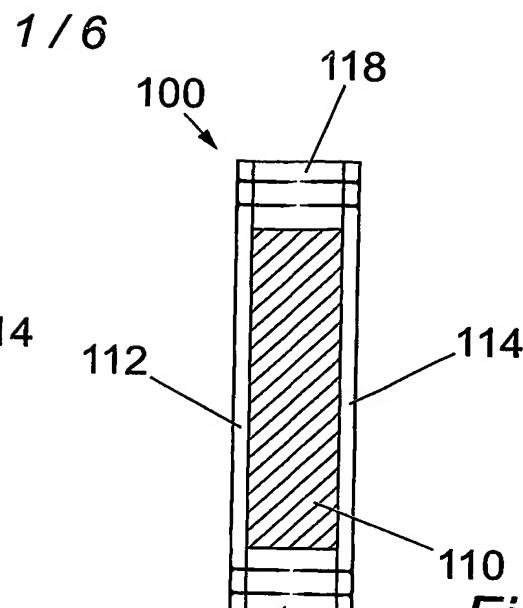


Fig. 2

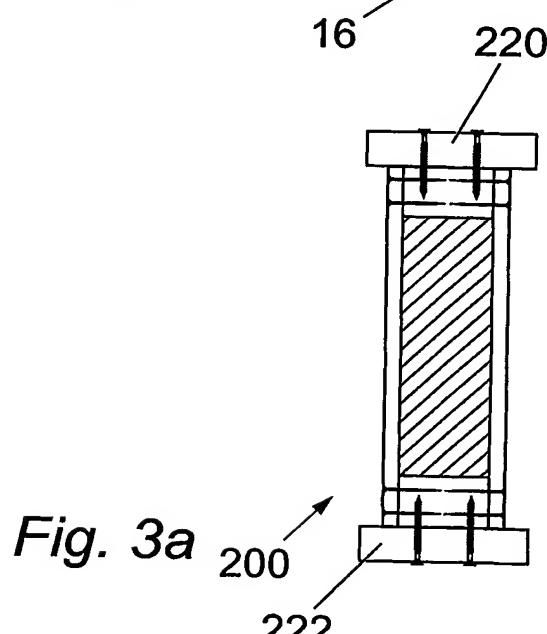


Fig. 3a

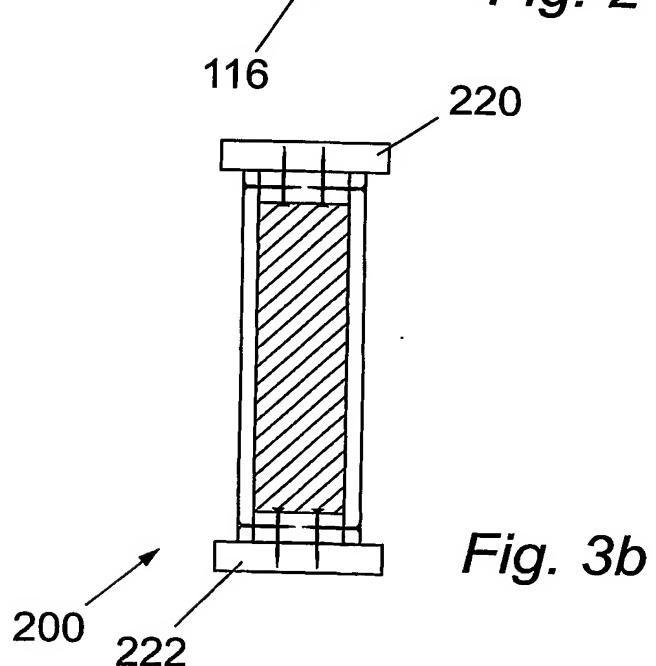


Fig. 3b

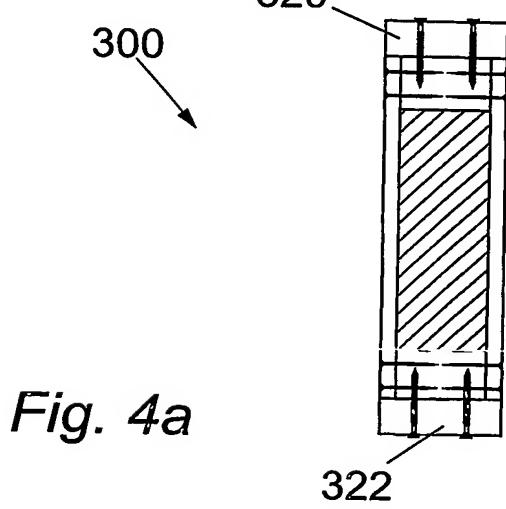


Fig. 4a

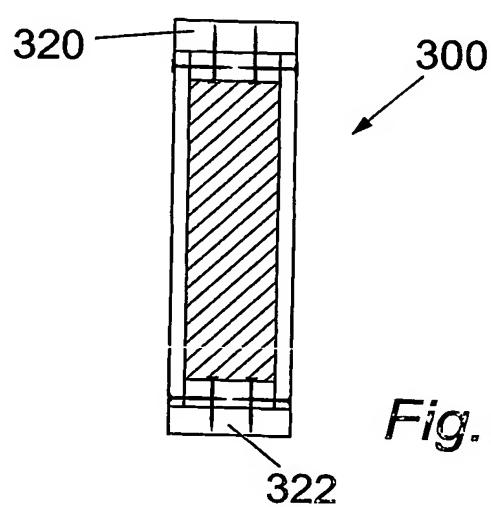


Fig. 4b

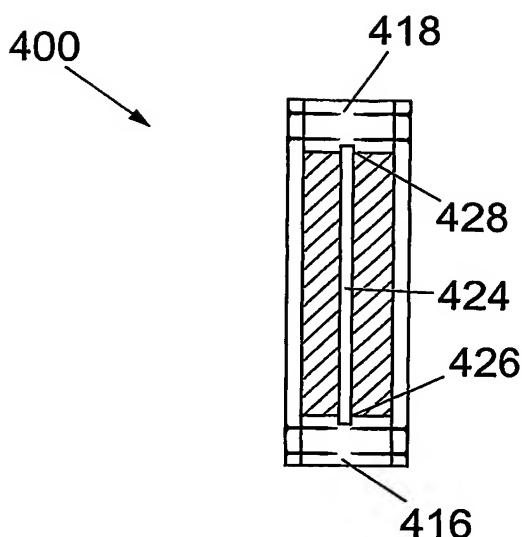


Fig. 5a

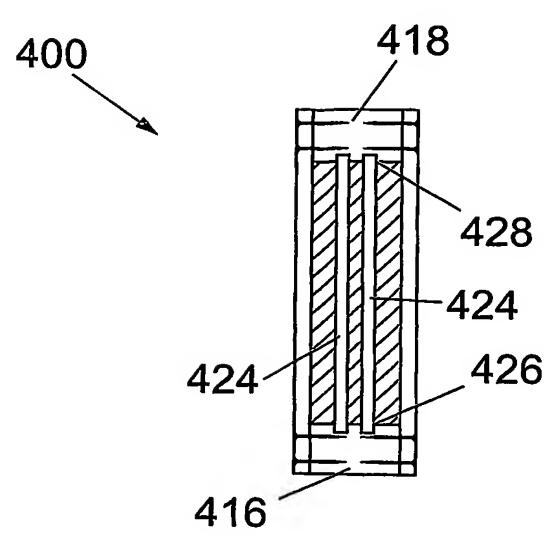


Fig. 5b

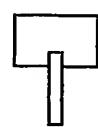


Fig. 5c



Fig. 5d

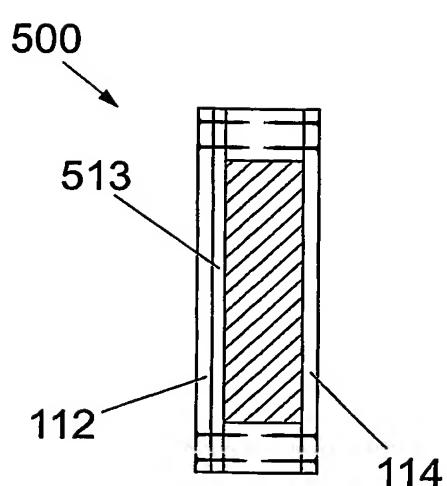


Fig. 6a

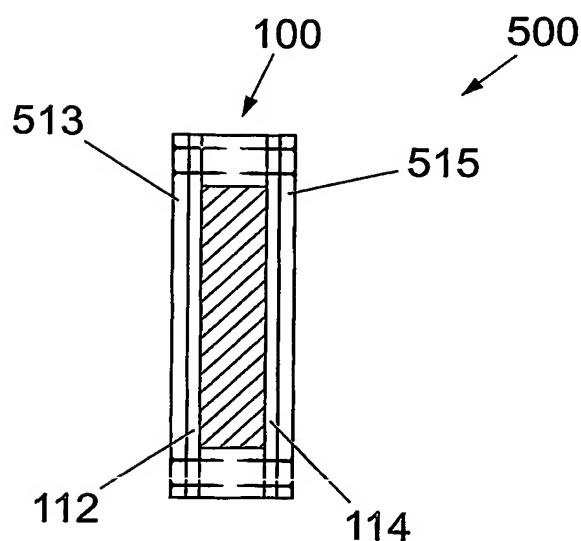


Fig. 6b

3 / 6

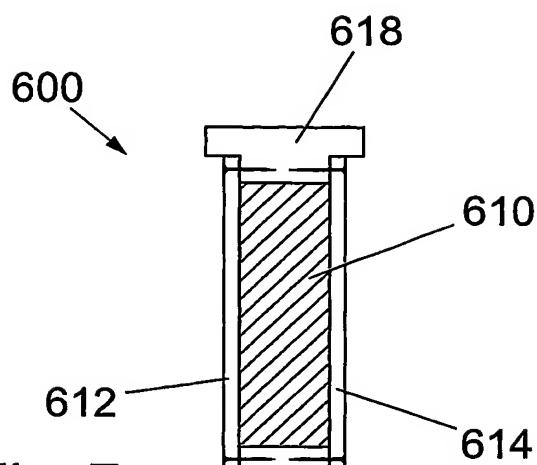


Fig. 7

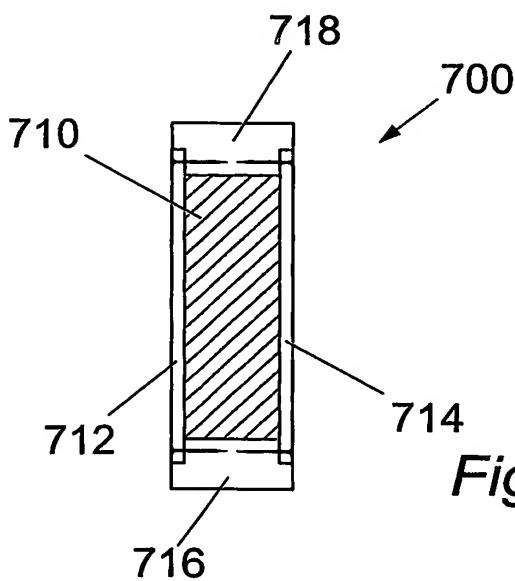


Fig. 8

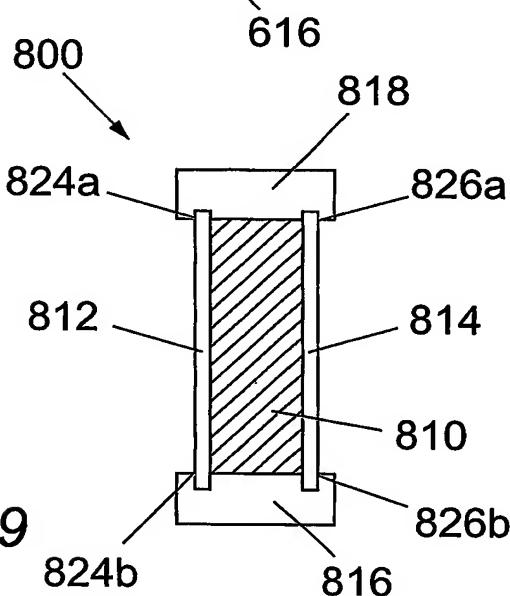


Fig. 9

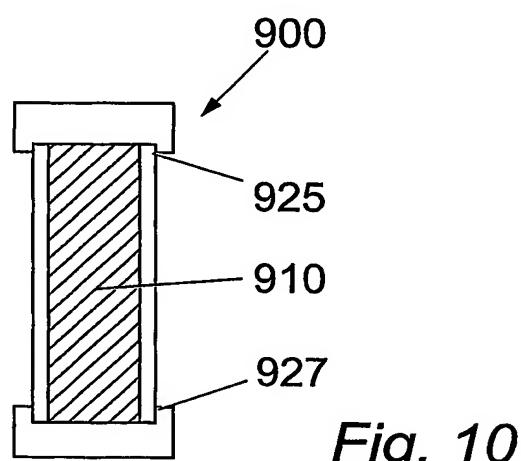


Fig. 10

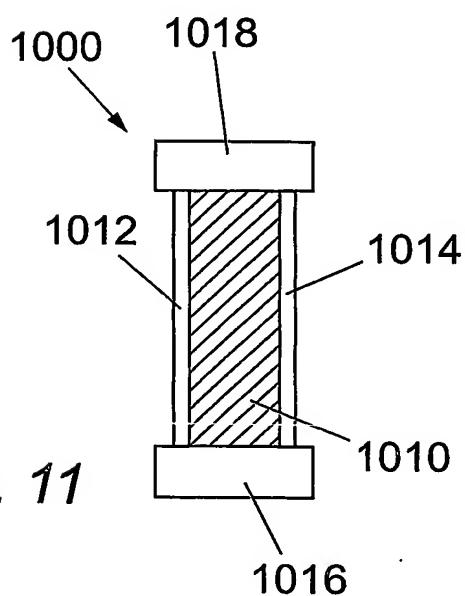


Fig. 11

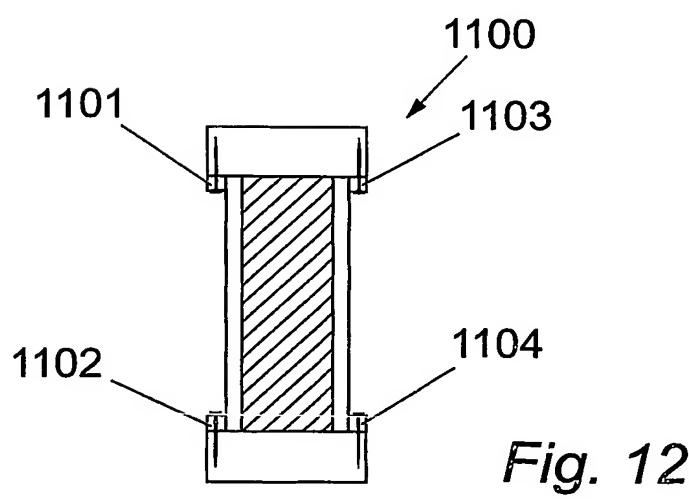


Fig. 12

4 / 6

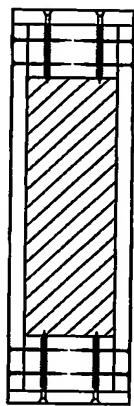


Fig. 13a

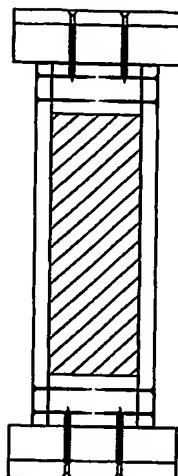


Fig. 13b

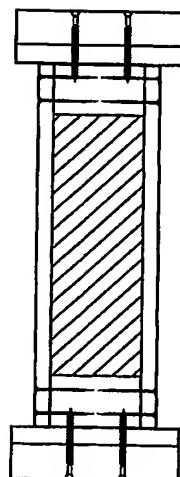


Fig. 13c

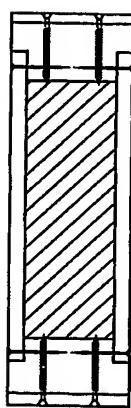


Fig. 13d

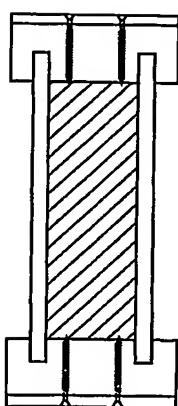


Fig. 13e

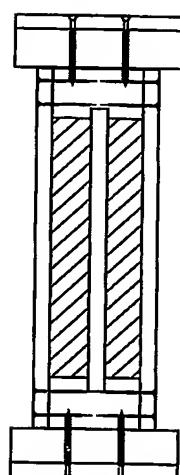


Fig. 13f

5 / 6

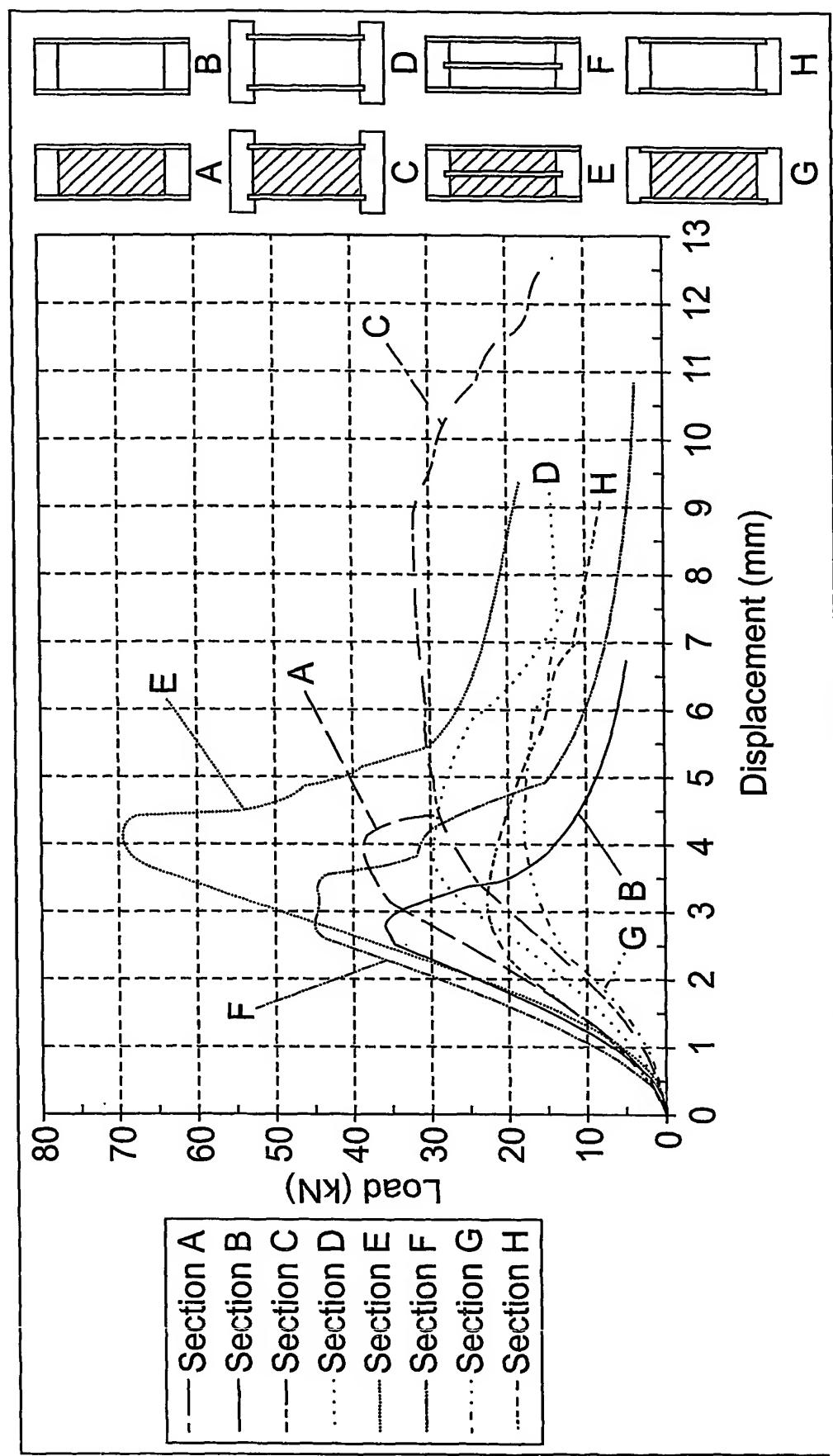


Fig. 14

6 / 6

Criterion	LVL	Parallam	Glulam	I-Joist	Box Beam	Structural Support Beam of Present Invention
Span	7	7	10	6	10	10
Strength	6	10	10	2	4	10
Stiffness	6	10	8	5	6	10
Appearance	8	10	9	0	5	5
Weight	0	0	0	10	10	10
Environment issue	-5	-5	0	0	5	4
Cost	-8	-10	-5	5	10	10
Connectability	6	5	10	0	6	6
Ease of use	6	6	8	-5	5	10
Size limitation	8	4	10	5	10	10
Dimensional stability	10	10	8	0	5	10
Availability in UK	0	0	7	10	5	10
Total	44	47	75	38	81	105

Indicators are: -10 is the most negative and +10 is the most positive.

Fig. 15